

15

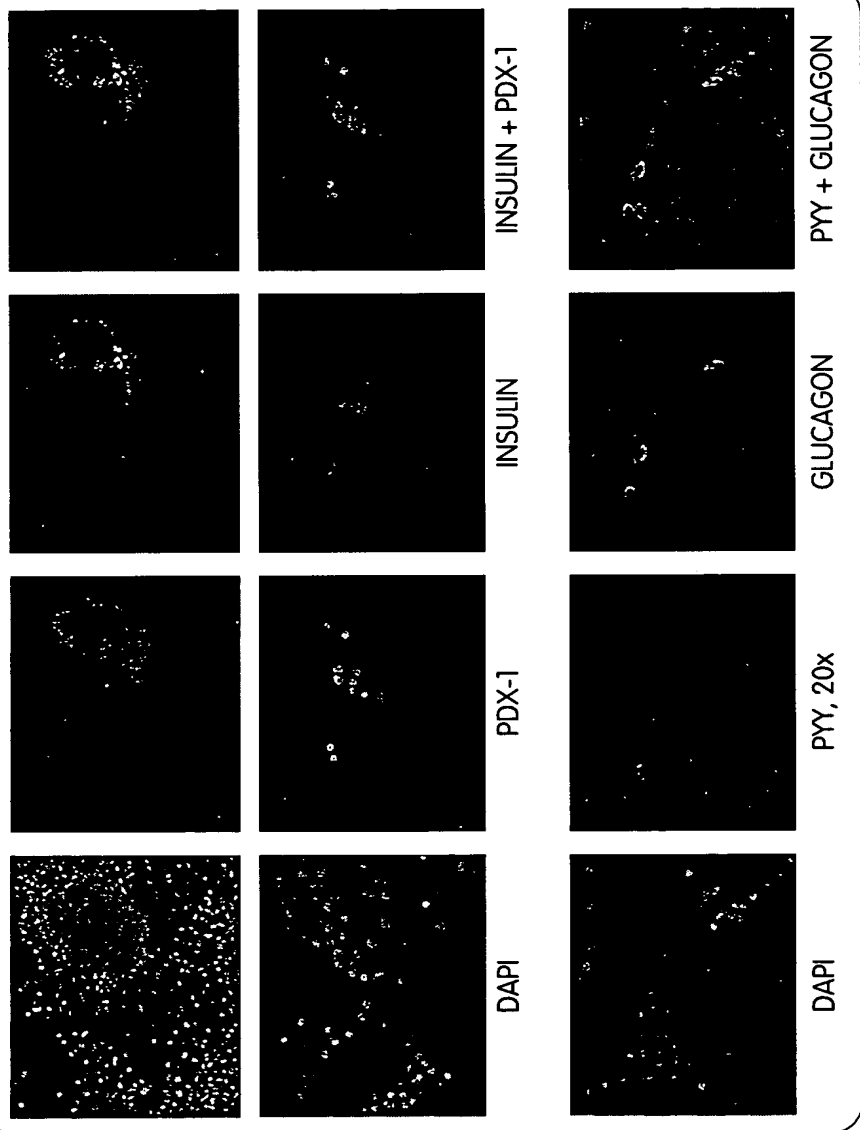
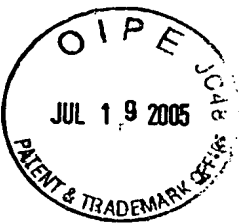


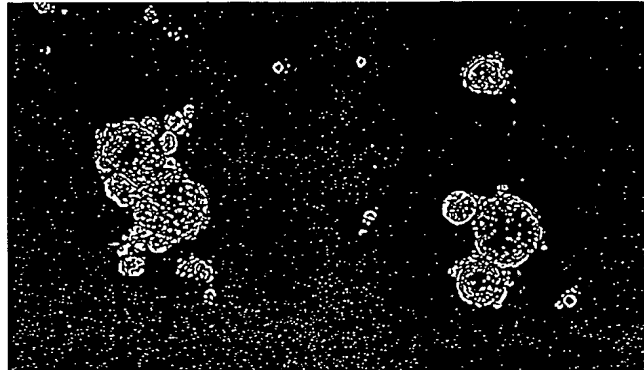
Fig. 16



46/64

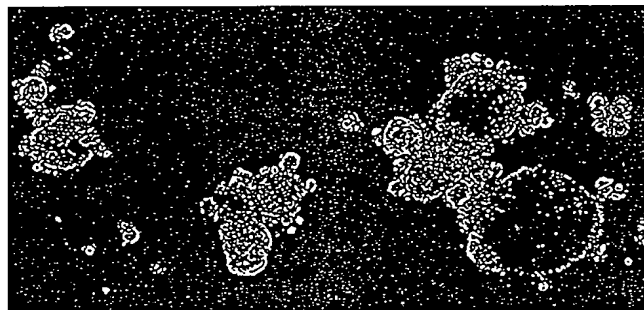
p14 DUCT PREP GROWN IN SPHERE MEDIA  
ON NON-TC SURFACE, p3  
ALL 10x mag.

MEDIA 1  
KO-B  
+15% KO-SR  
+TGF $\alpha$  + HGF  
+ IGF-I&II  
2mM GLUCOSE



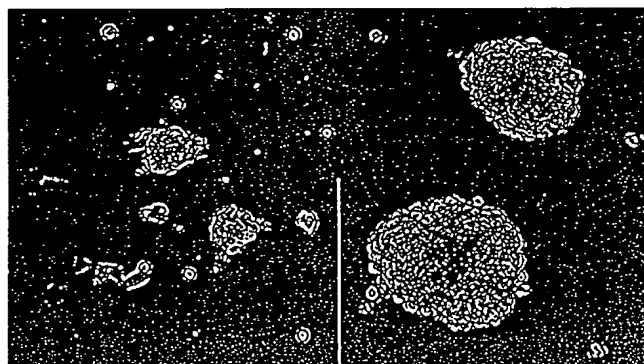
SLOWER GROWTH  
FEWER SPHERES  
HEALTHY

MEDIA 3  
LIVER BASAL  
+15% KO-SR  
+TGF $\alpha$  + HGF  
+ IGF-I&II  
11mM GLUCOSE



VERY FAST GROWTH  
MANY SPHERES  
LESS HEALTHY

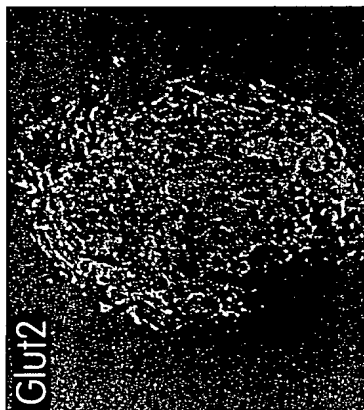
NEUROSPHERE  
MEDIUM  
+Ins + EGF  
+bFGF + LIF  
17mM GLUCOSE



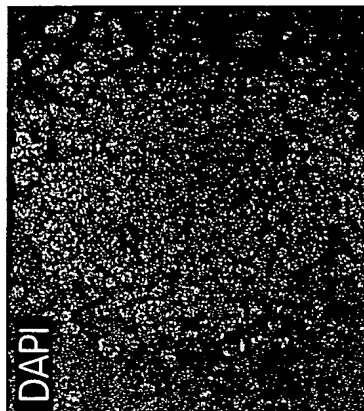
VERY HEALTHY  
VERY SLOW GROWTH  
FEW SPHERES

Fig. 42

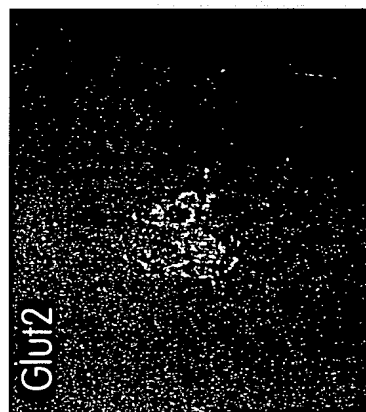
DUCT SPHERE CELL *IN VITRO* DIFFERENTIATION  
- Glut2 / NESTIN



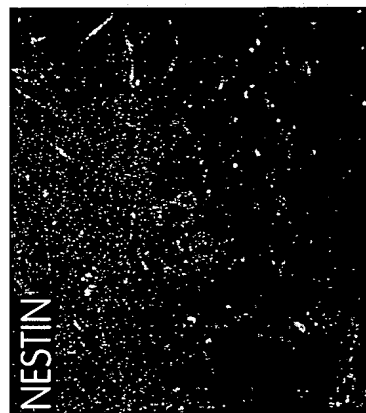
20x



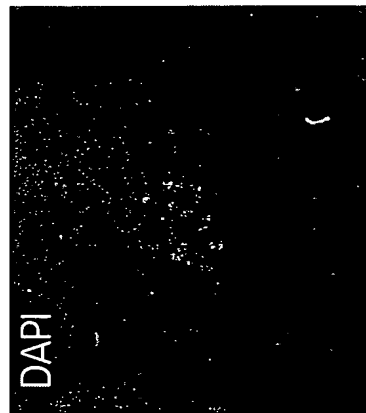
20x



20x



20x



20x

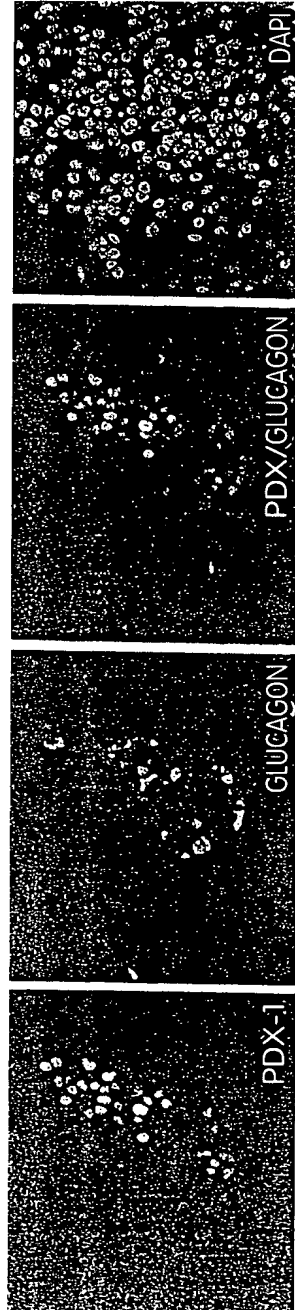
Fig. 43



48/64

DUCT SPHERE CELL IN VITRO DIFFERENTIATION  
- PDX / GLUCAGON

SINGLE CLUSTER



TWO CLUSTERS

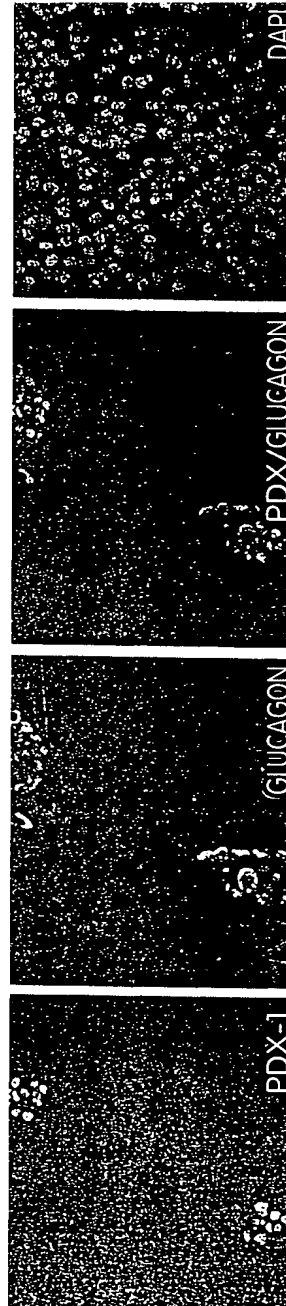
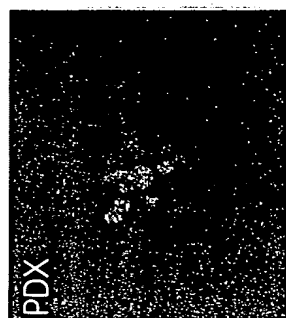


Fig. 44

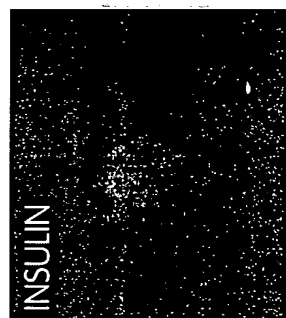


49/64

DUCT SPHERE CELL *IN VITRO* DIFFERENTIATION  
- PDX / INSULIN



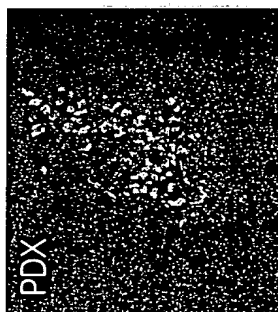
40x



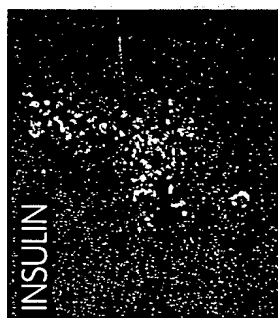
40x



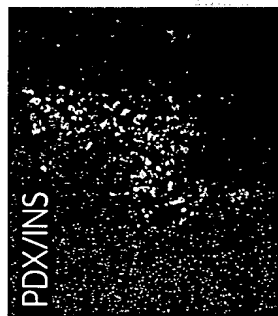
40x



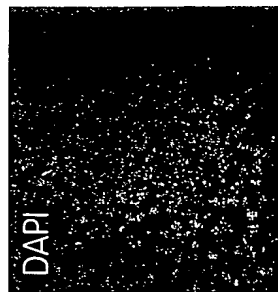
20x



20x



20x



20x

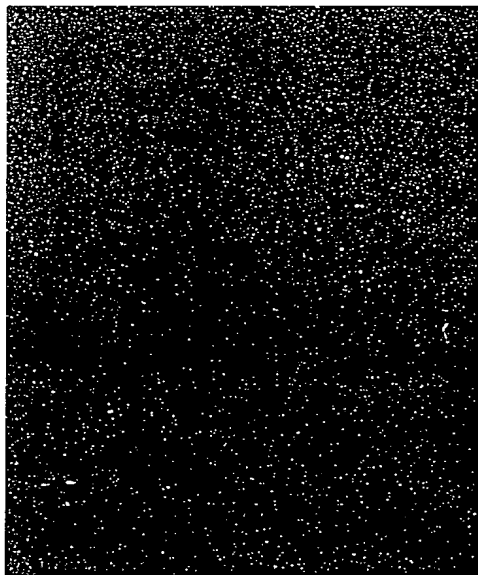
Fig. 45



51/64

5.19 SPHERES ON CYTOSPIN SLIDE  
(SPHERE IN CULTURE FOR 24 DAYS)

NESTIN



DAPI



NESTIN/DAPI

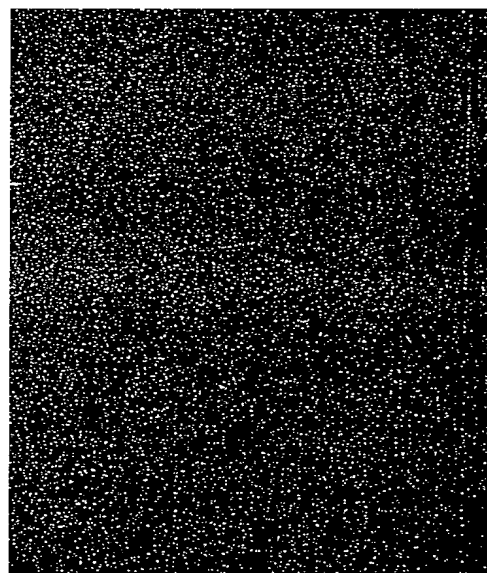
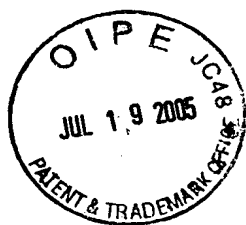


Fig. 47



53/81

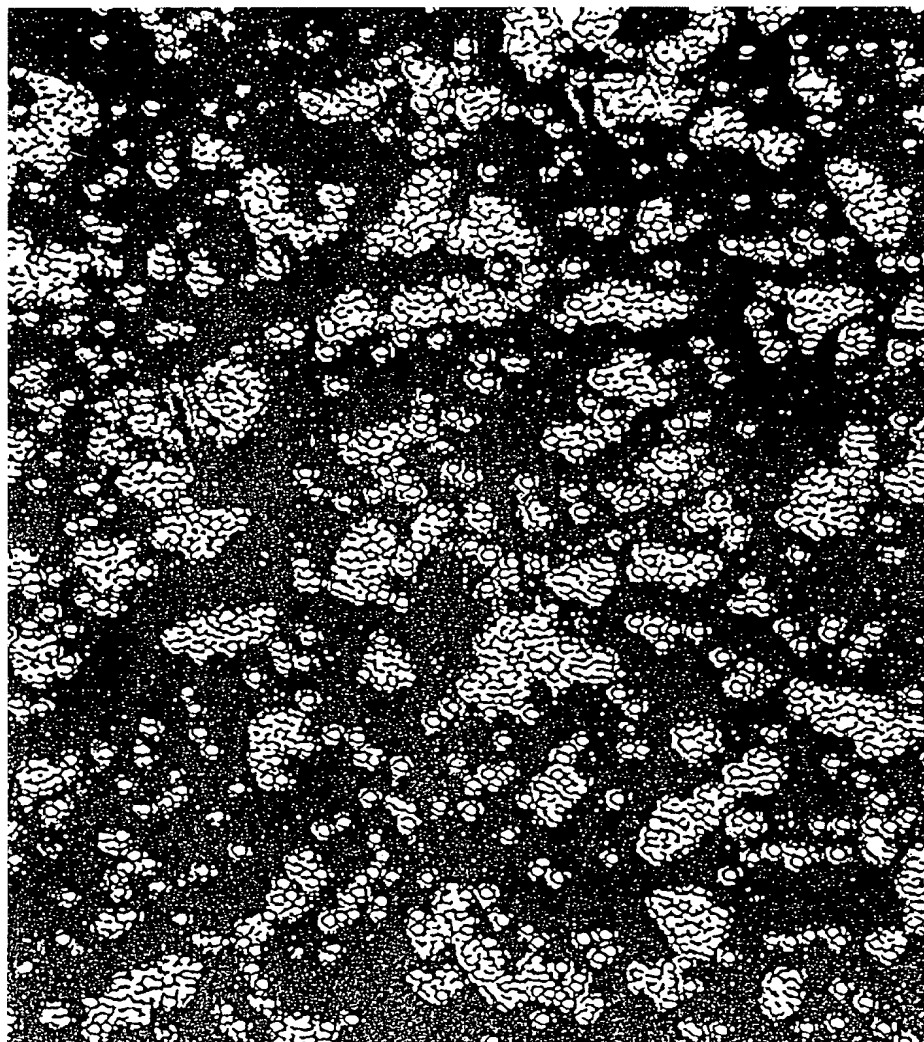


Fig. 49

BEST AVAILABLE COPY



54/81

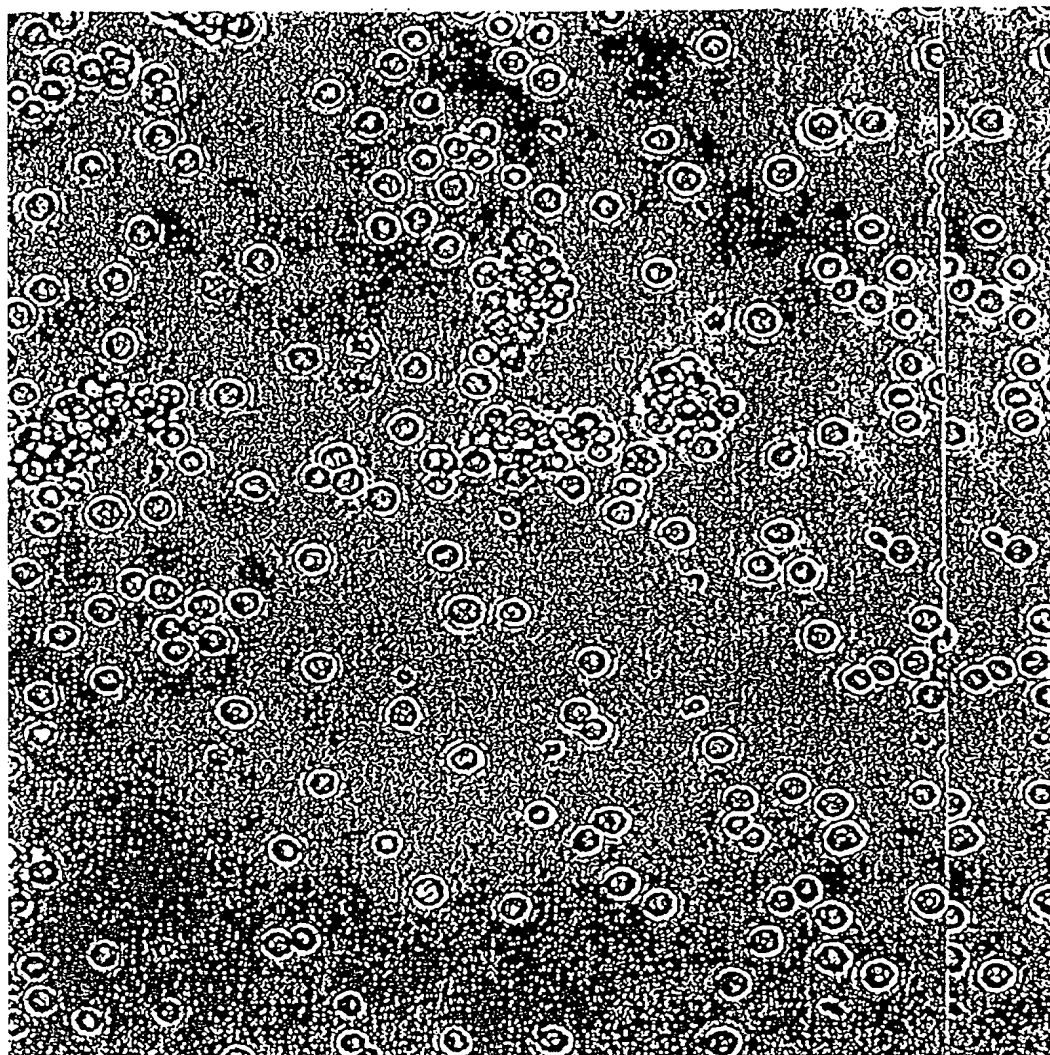


Fig. 50

BEST AVAILABLE COPY





55/64

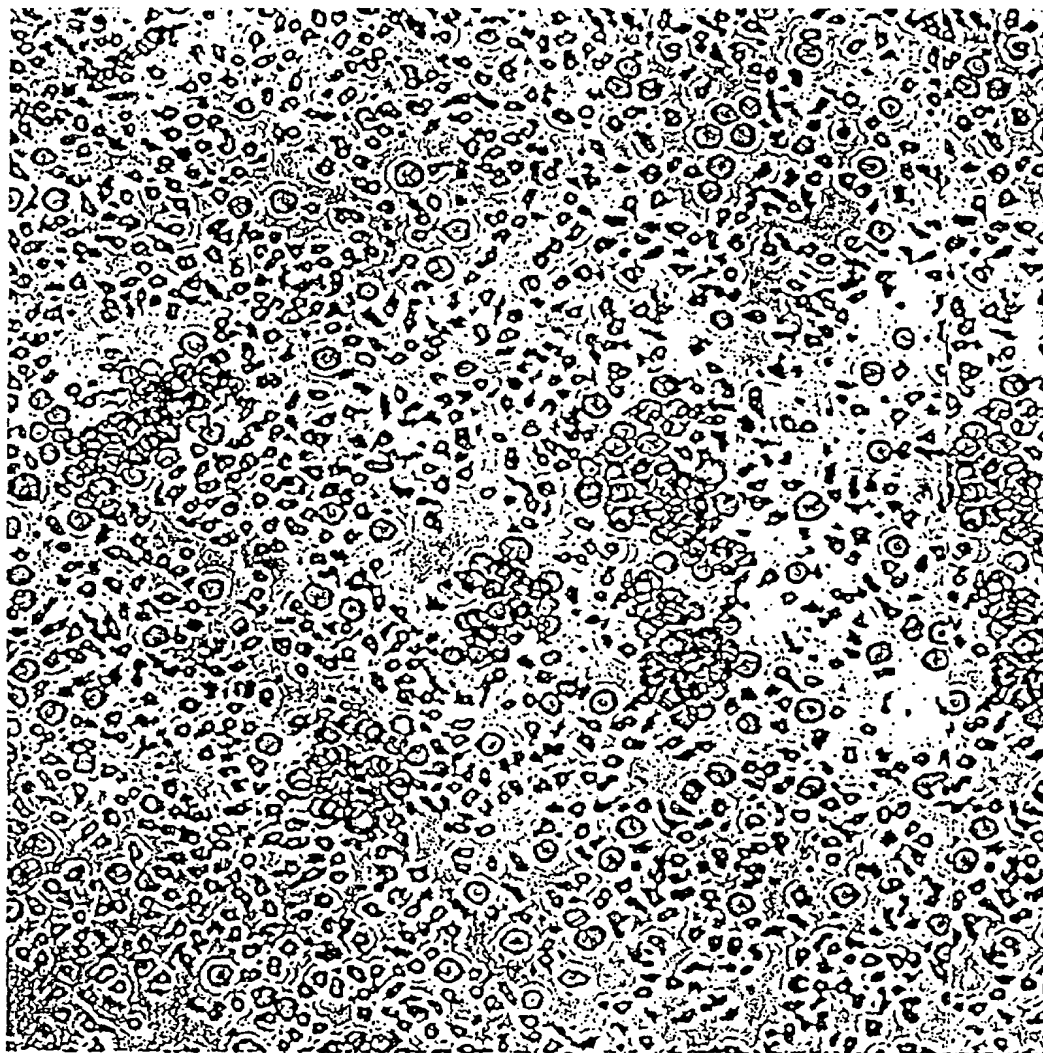


Fig. 51

BEST AVAILABLE COPY